Conditional Statements And Loops---

1. Write a Java program that takes a number from the user and generates an integer between 1 and 7. It displays the weekday name.

Test Data
Input number: 3
Expected Output :
Wednesday

2. Write a Java program to find the number of days in a month.

Test Data
Input a month number: 2
Input a year: 2016
Expected Output :
February 2016 has 29 days

3. Write a Java program that requires the user to enter a single character from the alphabet. Print Vowel or Consonant, depending on user input. If the user input is not a letter (between a and z or A and Z), or is a string of length > 1, print an error message.

Test Data
Input an alphabet: p
Expected Output :
Input letter is Consonant

4. Write a Java program that takes a year from the user and prints whether it is a leap year or not.

Test Data
Input the year: 2016
Expected Output :
2016 is a leap year

5. Write a program in Java to input 5 numbers from the keyboard and find their sum and average.

Input the 5 numbers : 1 2 3 4 5
Expected Output :

Input the 5 numbers :
1
2
3
4
5
The sum of 5 no is : 15
The Average is : 3.0

6. Write a Java program to display the cube of the given number up to an integer.

Test Data
Input number of terms : 4
Expected Output :

Number is : 1 and cube of 1 is : 1
Number is : 2 and cube of 2 is : 8
Number is : 3 and cube of 3 is : 27
Number is : 4 and cube of 4 is : 64
7. Write a Java program that displays the sum of n odd natural numbers.

Test Data
Input number of terms is: 5
Expected Output :

The odd numbers are :
1
3
5
7
9
The Sum of odd Natural Number upto 5 terms is: 25
8. Write a Java program to display the pattern like a right angle triangle with a number.

Input number of rows : 10

Expected Output :

```
1
12
123
1234
12345
123456
1234567
12345678
123456789
12345678910
```

9. Write a program in Java to make such a pattern like a right angle triangle with a number which repeats a number in a row.

The pattern is as follows :

```
1
22
333
4444
```

10. Write a Java program to make such a pattern like a pyramid with a number that repeats in the same row.

```
1
2 2
3 3 3
4 4 4 4
```

11. Write a Java program to generate the following * triangles.

Test Data

Input the number: 6

Expected Output :

```
* * * * * *
* * * * *
* * * *
* * *
* *
*
```

12. Write a Java program to generate the following @'s triangle.

Test Data
Input the number: 6
Expected Output :

```
@
@@
@@@
@@@@
@@@@@
@@@@@@
```

13. Write a program that accepts three numbers from the user and prints "increasing" if the numbers are in increasing order, "decreasing" if the numbers are in decreasing order, and "Neither increasing or decreasing order" otherwise.

Test Data
Input first number: 1524
Input second number: 2345
Input third number: 3321
Expected Output :

Increasing order

14. Write a Java program that accepts two floatingpoint numbers and checks whether they are the same up to two decimal places.

Test Data
Input first floatingpoint number: 1235
Input second floatingpoint number: 2534
Expected Output :

These numbers are different.

15. Write a Java program to display Pascal's triangle.

Test Data
Input number of rows: 5
Expected Output :

Input number of rows: 5
1
1 1

```
1 2 1
1 3 3 1
1 4 6 4 1
```